

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/856,231A

CRF Processing Date: 9/30/2002
 Edited by: [Signature]
 Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**



PCT09

RAW SEQUENCE LISTING

DATE: 07/30/2002

PATENT APPLICATION: US/09/856,231A

TIME: 19:19:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\07302002\I856231A.raw

3 <110> APPLICANT: Sagami Chemical Research Center,
 4 Protegene Inc.
 6 <120> TITLE OF INVENTION: HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAS ENCODING
 THESE PROTEINS

8 <130> FILE REFERENCE: GIN-6727CPUS

C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/856,231A

C--> 10 <141> CURRENT FILING DATE: 2002-05-02

10 <150> PRIOR APPLICATION NUMBER: JP 10-326255

11 <151> PRIOR FILING DATE: 1998-11-17

13 <150> PRIOR APPLICATION NUMBER: JP 10-364315

14 <151> PRIOR FILING DATE: 1998-12-22

16 <150> PRIOR APPLICATION NUMBER: JP 11-69811

17 <151> PRIOR FILING DATE: 1999-03-16

19 <150> PRIOR APPLICATION NUMBER: JP 11-119299

20 <151> PRIOR FILING DATE: 1999-04-27

22 <150> PRIOR APPLICATION NUMBER: JP 11-138169

23 <151> PRIOR FILING DATE: 1999-05-19

25 <160> NUMBER OF SEQ ID NOS: 150

27 <210> SEQ ID NO: 1

28 <211> LENGTH: 647

29 <212> TYPE: PRT

30 <213> ORGANISM: Homo sapiens

32 <400> SEQUENCE: 1

33 Met Ala Glu Glu Glu Ala Pro Lys Lys Ser Arg Ala Ala Gly Gly Gly

34 1 5 10 15

35 Ala Ser Trp Glu Leu Cys Ala Gly Ala Leu Ser Ala Arg Leu Thr Glu

36 20 25 30

37 Glu Gly Ser Gly Asp Ala Gly Gly Arg Arg Arg Pro Pro Val Asp Pro

38 35 40 45

39 Arg Arg Leu Ala Arg Gln Leu Leu Leu Leu Trp Leu Leu Glu Ala

40 50 55 60

41 Pro Leu Leu Leu Gly Val Arg Ala Gln Ala Ala Gly Gln Gly Pro Gly

42 65 70 75 80

43 Gln Gly Pro Gly Pro Gly Gln Gln Pro Pro Pro Pro Gln Gln Gln

44 85 90 95

45 Gln Ser Gly Gln Gln Tyr Asn Gly Glu Arg Gly Ile Ser Val Pro Asp

46 100 105 110

47 His Gly Tyr Cys Gln Pro Ile Ser Ile Pro Leu Cys Thr Asp Ile Ala

48 115 120 125

49 Tyr Asn Gln Thr Ile Met Pro Asn Leu Leu Gly His Thr Asn Gln Glu

50 130 135 140

51 Asp Ala Gly Leu Glu Val His Gln Phe Tyr Pro Leu Val Lys Val Gln

52 145 150 155 160

53 Cys Ser Ala Glu Leu Lys Phe Phe Leu Cys Ser Met Tyr Ala Pro Val

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54          165          170          175
55 Cys Thr Val Leu Glu Gln Ala Leu Pro Pro Cys Arg Ser Leu Cys Glu
56          180          185          190
57 Arg Ala Arg Gln Gly Cys Glu Ala Leu Met Asn Lys Phe Gly Phe Gln
58          195          200          205
59 Trp Pro Asp Thr Leu Lys Cys Glu Lys Phe Pro Val His Gly Ala Gly
60          210          215          220
61 Glu Leu Cys Val Gly Gln Asn Thr Ser Asp Lys Gly Thr Pro Thr Pro
62 225          230          235          240
63 Ser Leu Leu Pro Glu Phe Trp Thr Ser Asn Pro Gln His Gly Gly Gly
64          245          250          255
65 Gly His Arg Gly Gly Phe Pro Gly Gly Ala Gly Ala Ser Glu Arg Gly
66          260          265          270
67 Lys Phe Ser Cys Pro Arg Ala Leu Lys Val Pro Ser Tyr Leu Asn Tyr
68          275          280          285
69 His Phe Leu Gly Glu Lys Asp Cys Gly Ala Pro Cys Glu Pro Thr Lys
70          290          295          300
71 Val Tyr Gly Leu Met Tyr Phe Gly Pro Glu Glu Leu Arg Phe Ser Arg
72 305          310          315          320
73 Thr Trp Ile Gly Ile Trp Ser Val Leu Cys Cys Ala Ser Thr Leu Phe
74          325          330          335
75 Thr Val Leu Thr Tyr Leu Val Asp Met Arg Arg Phe Ser Tyr Pro Glu
76          340          345          350
77 Arg Pro Ile Ile Phe Leu Ser Gly Cys Tyr Thr Ala Val Ala Val Ala
78          355          360          365
79 Tyr Ile Ala Gly Phe Leu Leu Glu Asp Arg Val Val Cys Asn Asp Lys
80          370          375          380
81 Phe Ala Glu Asp Gly Ala Arg Thr Val Ala Gln Gly Thr Lys Lys Glu
82 385          390          395          400
83 Gly Cys Thr Ile Leu Phe Met Met Leu Tyr Phe Phe Ser Met Ala Ser
84          405          410          415
85 Ser Ile Trp Trp Val Ile Leu Ser Leu Thr Trp Phe Leu Ala Ala Gly
86          420          425          430
87 Met Lys Trp Gly His Glu Ala Ile Glu Ala Asn Ser Gln Tyr Phe His
88          435          440          445
89 Leu Ala Ala Trp Ala Val Pro Ala Ile Lys Thr Ile Thr Ile Leu Ala
90          450          455          460
91 Leu Gly Gln Val Asp Gly Asp Val Leu Ser Gly Val Cys Phe Val Gly
92 465          470          475          480
93 Leu Asn Asn Val Asp Ala Leu Arg Gly Phe Val Leu Ala Pro Leu Phe
94          485          490          495
95 Val Tyr Leu Phe Ile Gly Thr Ser Phe Leu Leu Ala Gly Phe Val Ser
96          500          505          510
97 Leu Phe Arg Ile Arg Thr Ile Met Lys His Asp Gly Thr Lys Thr Glu
98          515          520          525
99 Lys Leu Glu Lys Leu Met Val Arg Ile Gly Val Phe Ser Val Leu Tyr
100          530          535          540
101 Thr Val Pro Ala Thr Ile Val Ile Ala Cys Tyr Phe Tyr Glu Gln Ala
102 545          550          555          560

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103 Phe Arg Asp Gln Trp Glu Arg Ser Trp Val Ala Gln Ser Cys Lys Ser
104           565           570           575
105 Tyr Ala Ile Pro Cys Pro His Leu Gln Ala Gly Gly Gly Ala Pro Pro
106           580           585           590
107 His Pro Pro Met Ser Pro Asp Phe Thr Val Phe Met Ile Lys Tyr Leu
108           595           600           605
109 Met Thr Leu Ile Val Gly Ile Thr Ser Gly Phe Trp Ile Trp Ser Gly
110           610           615           620
111 Lys Thr Leu Asn Ser Trp Arg Lys Phe Tyr Thr Arg Leu Thr Asn Ser
112 625           630           635           640
113 Lys Gln Gly Glu Thr Val
114           645
116 <210> SEQ ID NO: 2
117 <211> LENGTH: 350
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 2
122 Met His Pro Ala Ala Phe Pro Leu Pro Val Val Val Ala Ala Val Leu
123 1           5           10           15
124 Trp Gly Ala Ala Pro Thr Arg Gly Leu Ile Arg Ala Thr Ser Asp His
125           20           25           30
126 Asn Ala Ser Met Asp Phe Ala Asp Leu Pro Ala Leu Phe Gly Ala Thr
127           35           40           45
128 Leu Ser Gln Glu Gly Leu Gln Gly Phe Leu Val Glu Ala His Pro Asp
129           50           55           60
130 Asn Ala Cys Ser Pro Ile Ala Pro Pro Pro Pro Ala Pro Val Asn Gly
131 65           70           75           80
132 Ser Val Phe Ile Ala Leu Leu Arg Arg Phe Asp Cys Asn Phe Asp Leu
133           85           90           95
134 Lys Val Leu Asn Ala Gln Lys Ala Gly Tyr Gly Ala Ala Val Val His
135           100          105          110
136 Asn Val Asn Ser Asn Glu Leu Leu Asn Met Val Trp Asn Ser Glu Glu
137           115          120          125
138 Ile Gln Gln Gln Ile Trp Ile Pro Ser Val Phe Ile Gly Glu Arg Ser
139           130          135          140
140 Ser Glu Tyr Leu Arg Ala Leu Phe Val Tyr Glu Lys Gly Ala Arg Val
141 145           150          155          160
142 Leu Leu Val Pro Asp Asn Thr Phe Pro Leu Gly Tyr Tyr Leu Ile Pro
143           165          170          175
144 Phe Thr Gly Ile Val Gly Leu Leu Val Leu Ala Met Gly Ala Val Met
145           180          185          190
146 Ile Ala Arg Cys Ile Gln His Arg Lys Arg Leu Gln Arg Asn Arg Leu
147           195          200          205
148 Thr Lys Glu Gln Leu Lys Gln Ile Pro Thr His Asp Tyr Gln Lys Gly
149           210          215          220
150 Asp Gln Tyr Asp Val Cys Ala Ile Cys Leu Asp Glu Tyr Glu Asp Gly
151 225           230          235          240
152 Asp Lys Leu Arg Val Leu Pro Cys Ala His Ala Tyr His Ser Arg Cys
153           245          250          255

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```

154 Val Asp Pro Trp Leu Thr Gln Thr Arg Lys Thr Cys Pro Ile Cys Lys
155           260           265           270
156 Gln Pro Val His Arg Gly Pro Gly Asp Glu Asp Gln Glu Glu Glu Thr
157           275           280           285
158 Gln Gly Gln Glu Glu Gly Asp Glu Gly Glu Pro Arg Asp His Pro Ala
159           290           295           300
160 Ser Glu Arg Thr Pro Leu Leu Gly Ser Ser Pro Thr Leu Pro Thr Ser
161 305           310           315           320
162 Phe Gly Ser Leu Ala Pro Ala Pro Leu Val Phe Pro Gly Pro Ser Thr
163           325           330           335
164 Asp Pro Pro Leu Ser Pro Pro Ser Ser Pro Val Ile Leu Val
165           340           345           350
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 206
169 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 3
173 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
174 1           5           10           15
175 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
176           20           25           30
177 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
178           35           40           45
179 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
180           50           55           60
181 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
182 65           70           75           80
183 Ser Gln Pro Arg Gly Arg Asp Leu Pro Trp Leu Gly Leu Val Gly Pro
184           85           90           95
185 Ser Gly Leu Trp Thr Ala Asn Thr Leu Cys Cys Phe Trp Lys Ile Pro
186           100          105          110
187 Leu Pro His Pro Cys Leu Ser Pro Ser Ser Pro Pro Thr Leu Arg Ser
188           115          120          125
189 Gly His Pro Ile Pro Phe Gly His Gln Pro Asn Arg Leu Ile Arg Gly
190           130          135          140
191 Trp Lys Leu Gly Gln Arg Arg Val Tyr Pro Leu Val Arg Arg Arg
192 145          150          155          160
193 Ala Leu Leu Lys Gly Cys Gly Ala Gly Pro Gly Ala Gly Pro Gly Leu
194           165          170          175
195 Ala Trp Ala Ala Ala Gly Ala Val Val Pro Gly Val Leu Gly Ala Leu
196           180          185          190
197 Gly Pro Ser Trp Pro Ala Val Leu Ala Val Pro Val Pro Leu
198           195          200          205
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 213
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 4
206 Met His Tyr Tyr Arg Tyr Ser Asn Ala Lys Val Ser Cys Trp Tyr Lys

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Input Set : A:\PTO.AMC.txt

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207      1              5              10              15
208 Tyr Leu Leu Phe Ser Tyr Asn Ile Ile Phe Trp Leu Ala Gly Val Val
209              20              25              30
210 Phe Leu Gly Val Gly Leu Trp Ala Trp Ser Glu Lys Gly Val Leu Ser
211              35              40              45
212 Asp Leu Thr Lys Val Thr Arg Met His Gly Ile Asp Pro Val Val Leu
213              50              55              60
214 Val Leu Met Val Gly Val Val Met Phe Thr Leu Gly Phe Ala Gly Cys
215 65              70              75              80
216 Val Gly Ala Leu Arg Glu Asn Ile Cys Leu Leu Asn Phe Asn Gln Cys
217              85              90              95
218 Cys Gly Ala Tyr Gly Pro Glu Asp Trp Asp Leu Asn Val Tyr Phe Asn
219              100             105             110
220 Cys Ser Gly Ala Ser Tyr Ser Arg Glu Lys Cys Gly Val Pro Phe Ser
221              115             120             125
222 Cys Cys Val Pro Asp Pro Ala Gln Lys Val Val Asn Thr Gln Cys Gly
223              130             135             140
224 Tyr Asp Val Arg Ile Gln Leu Lys Ser Lys Trp Asp Glu Ser Ile Phe
225 145             150             155             160
226 Thr Lys Gly Cys Ile Gln Ala Leu Glu Ser Trp Leu Pro Arg Asn Ile
227              165             170             175
228 Tyr Ile Val Ala Gly Val Phe Ile Ala Ile Ser Leu Leu Gln Ile Phe
229              180             185             190
230 Gly Ile Phe Leu Ala Arg Thr Leu Ile Ser Asp Ile Glu Ala Val Lys
231              195             200             205
232 Ala Gly His His Phe
233              210
235 <210> SEQ ID NO: 5
236 <211> LENGTH: 595
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 5
241 Met Arg Ala Ala Arg Ala Ala Pro Leu Leu Gln Leu Leu Leu Leu
242      1              5              10              15
243 Gly Pro Trp Leu Glu Ala Ala Gly Val Ala Glu Ser Pro Leu Pro Ala
244              20              25              30
245 Val Val Leu Ala Ile Leu Ala Arg Asn Ala Glu His Ser Leu Pro His
246              35              40              45
247 Tyr Leu Gly Ala Leu Glu Arg Leu Asp Tyr Pro Arg Ala Arg Met Ala
248              50              55              60
249 Leu Trp Cys Ala Thr Asp His Asn Val Asp Asn Thr Thr Glu Met Leu
250 65              70              75              80
251 Gln Glu Trp Leu Ala Ala Val Gly Asp Asp Tyr Ala Ala Val Val Trp
252              85              90              95
253 Arg Pro Glu Gly Glu Pro Arg Phe Tyr Pro Asp Glu Glu Gly Pro Lys
254              100             105             110
255 His Trp Thr Lys Glu Arg His Gln Phe Leu Met Glu Leu Lys Gln Glu
256              115             120             125
257 Ala Leu Thr Phe Ala Arg Asn Trp Gly Ala Asp Tyr Ile Leu Phe Ala

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/856,231A

DATE: 07/30/2002

TIME: 19:19:12

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\07302002\I856231A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date